QC ABSTRACT

NAME OF WORK: "Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials			1	1
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	8.1	4	4

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 14-04-21

Lab ID	:	CP-2021-06-21-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."
Agency	:	Sri Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-03/W O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2. Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5.Clause 6 IS 4031 Part 4. Determination of Consistency of Standard Cement Paste. Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-04-21
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Fness by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON COARSE AGGREGATES

Date: 15-04-21

Lab ID	:	CP-2021-06-21-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."
Agency	:	Sri.Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-03/W.O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-04-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/04/2021

Lab ID	:	CP-2021-06-21-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."
Agency	:	Sri.Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-03/W.O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-21
Customer ID	:	Mass Concrete for Fixing Equipments
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete C15
Date of test	:	27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Mass Concrete for Fixing Equipments	M15	20/04/2021	27/04/2021	150.10 X 149.44 X 150.24	22431	8.578	273.5	12.2	12.5
2	Mass Concrete for Fixing Equipments	M15	20/04/2021	27/04/2021	151.79 X 150.00 X 149.52	22769	8.712	283.3	12.4	
3	Mass Concrete for Fixing Equipments	M15	20/04/2021	27/04/2021	151.97 X 149.34 X 149.22	22696	8.158	294.8	13.0	

* The results obtained are satisfactory as per standard requirements

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/05/2021

Lab ID	:	CP-2021-06-21-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No 04"
Agency	:	Sri Narayanappa Ramesh, No 308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-03/W O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-21
Customer ID	:	Mass Concrete for Fixing Equipments
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete C1 5

Date of test : 18/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Mass Concrete for Fixing Equipments	M15	20/04/2021	18/05/2021	149 83 X 149 72 X 151 95	22432	8.587	391 6	17 5	17 8
2	Mass Concrete for Fixing Equipments	M15	20/04/2021	18/05/2021	150 73 X 151 78 X 149 78	22878	8.645	410 5	17 9	
3	Mass Concrete for Fixing Equipments	M15	20/04/2021	18/05/2021	149 89 X 149 95 X 151 46	22476	8.581	401 3	17 9	

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TEST REPORT ON COARSE AGGREGATES

Date: 14-04-21

Lab ID	:	CP-2021-06-21-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."
Agency	:	Sri.Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-03/W.O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	–

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2021-06-21-20**	**Date: 19-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Providing Children Playing Equipments Near Alfasandra Lake in Ward No:04."	
Agency	:	Sri Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064	
Customer's Reference	:	BBMP/EE/YNK D/EPMT-03/W O/139/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-04-21	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	14/04/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/04/2021

Lab ID	:	CP-2021-06-21-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."
Agency	:	Sri.Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-03/W.O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-21
Customer ID	:	Mass Concrete for Fixing Equipments
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Mass Concrete for Fixing Equipments	M15	20/04/2021	27/04/2021	151.69 X 151.05 X 150.39	22912	8.578	281.1	12.3	12.2
2	Mass Concrete for Fixing Equipments	M15	20/04/2021	27/04/2021	150.52 X 149.88 X 150.92	22559	8.712	271.5	12.0	
3	Mass Concrete for Fixing Equipments	M15	20/04/2021	27/04/2021	151.67 X 151.88 X 150.36	23035	8.158	283.2	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-06-21-20** **Date: 18/05/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Providing Children Playing Equipments Near Allasandra Lake in Ward No:04."
Agency	:	Sri.Narayanappa Ramesh, No:308, SMV OLETY NILAYA, 3rd Cross, 3rd A Phase, UAS Layout GKVK Jakkur, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-03/W.O/139/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-21
Customer ID	:	Mass Concrete for Fixing Equipments
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Mass Concrete for Fixing Equipments	M15	20/04/2021	18/05/2021	150.92 X 151.16 X 149.06	22812	8.587	403.6	17.7	17.6
2	Mass Concrete for Fixing Equipments	M15	20/04/2021	18/05/2021	149.93 X 151.10 X 151.50	22654	8.645	399.1	17.6	
3	Mass Concrete for Fixing Equipments	M15	20/04/2021	18/05/2021	149.74 X 149.52 X 149.53	22388	8.581	391.0	17.5	

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